

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-16. (canceled)

17. (currently amended) ~~The code generation apparatus of claim 16;~~ A code generation apparatus to generate a source code using a model containing at least two specific parts, either of which is only used in a system to which the generated source code is adapted, the apparatus comprising:

model acquisition means for acquiring the model having the specific parts;

selection information acquisition means for acquiring selection information, from a source external to the code generation apparatus, capable of indicating selection of a specific part among the specific parts using a corresponding part specifier;

deletion and generation means for generating the source code from an intermediate model, which is generated from the model acquired by the model acquisition means based on the selection information acquired by the selection information acquisition means, the intermediate model containing only a selected specific part selected from the specific parts and not containing any other specific part other than the selected specific part;

a machine readable storage medium for storing the generated source code;

wherein the specific parts of the model correspond to types different from each other; and

wherein the specific parts of the model correspond to types of engines.

18. (currently amended) ~~The code generation apparatus of claim 1,~~ A code generation apparatus to generate a source code using a model containing at least two specific parts, either of which is only used in a system to which the generated source code is adapted, the apparatus comprising:

model acquisition means for acquiring the model having the specific parts;

selection information acquisition means for acquiring selection information, from a source external to the code generation apparatus, capable of indicating selection of a specific part among the specific parts using a corresponding part specifier;

deletion and generation means for generating the source code from an intermediate model, which is generated from the model acquired by the model acquisition means based on the selection information acquired by the selection information acquisition means, the intermediate model containing only a selected specific part selected from the specific parts and not containing any other specific part other than the selected specific part;

a machine readable storage medium for storing the generated source code;

wherein the specific parts of the model correspond to destination countries which are different from each other.

19. (currently amended) ~~The code generation apparatus of claim 1,~~ A code generation apparatus to generate a source code using a model containing at least two specific parts, either of which is only used in a system to which the generated source code is adapted, the apparatus comprising:

model acquisition means for acquiring the model having the specific parts;

selection information acquisition means for acquiring selection information, from a source external to the code generation apparatus, capable of indicating selection of a specific part among the specific parts using a corresponding part specifier;

deletion and generation means for generating the source code from an intermediate model, which is generated from the model acquired by the model acquisition means based on the selection information acquired by the selection information acquisition means, the intermediate model containing only a selected specific part selected from the specific parts and not containing any other specific part other than the selected specific part;

a machine readable storage medium for storing the generated source code;

wherein the specific parts of the model correspond to intended uses which are different from each other.

20. (currently amended) ~~The code generation apparatus of claim 1;~~ A code generation apparatus to generate a source code using a model containing at least two specific parts, either of which is only used in a system to which the generated source code is adapted, the apparatus comprising:

model acquisition means for acquiring the model having the specific parts;

selection information acquisition means for acquiring selection information, from a source external to the code generation apparatus, capable of indicating selection of a specific part among the specific parts using a corresponding part specifier;

deletion and generation means for generating the source code from an intermediate model, which is generated from the model acquired by the model acquisition means based on the

selection information acquired by the selection information acquisition means, the intermediate model containing only a selected specific part selected from the specific parts and not containing any other specific part other than the selected specific part;

a machine readable storage medium for storing the generated source code;

wherein the specific parts of the model correspond to regulations according to domestic laws of countries, the regenerations being different from each other.

21.-24. (canceled)

25. (currently amended) ~~The apparatus of claim 9,~~ A simulation apparatus for executing functions included in an intermediate model generated from a model containing at least two specific parts, the apparatus comprising:

model acquisition means for acquiring the model containing the specific parts;

selection information acquisition means for acquiring selection information, from a source external to the simulation apparatus, capable of indicating selection of a specific part among the specific parts, using a part specifier corresponding to the specific part among the specific parts;

deletion and generation means for executing the functions included in the intermediate model, which is generated from the model acquired by the model acquisition means based on the selection information acquired by the selection information acquisition means, the intermediate model containing only a selected specific part selected from the specific parts and not containing any other specific part other than the selected specific part;

a machine readable storage medium for storing the generated intermediate model;

wherein the specific parts of the model correspond to different types of engines.

26. (currently amended) ~~The apparatus of claim 9,~~A simulation apparatus for executing functions included in an intermediate model generated from a model containing at least two specific parts, the apparatus comprising:

model acquisition means for acquiring the model containing the specific parts;

selection information acquisition means for acquiring selection information, from a source external to the simulation apparatus, capable of indicating selection of a specific part among the specific parts, using a part specifier corresponding to the specific part among the specific parts;

deletion and generation means for executing the functions included in the intermediate model, which is generated from the model acquired by the model acquisition means based on the selection information acquired by the selection information acquisition means, the intermediate model containing only a selected specific part selected from the specific parts and not containing any other specific part other than the selected specific part;

a machine readable storage medium for storing the generated intermediate model;

wherein the specific parts of the model correspond to destination countries which are different from each other.

27. (currently amended) ~~The apparatus of claim 9,~~A simulation apparatus for executing functions included in an intermediate model generated from a model containing at least two specific parts, the apparatus comprising:

model acquisition means for acquiring the model containing the specific parts;

selection information acquisition means for acquiring selection information, from a source external to the simulation apparatus, capable of indicating selection of a specific part among the specific parts, using a part specifier corresponding to the specific part among the specific parts;

deletion and generation means for executing the functions included in the intermediate model, which is generated from the model acquired by the model acquisition means based on the selection information acquired by the selection information acquisition means, the intermediate model containing only a selected specific part selected from the specific parts and not containing any other specific part other than the selected specific part;

a machine readable storage medium for storing the generated intermediate model;

wherein the specific parts of the model correspond to intended uses which are different from each other.

28. (currently amended) ~~The apparatus of claim 9;~~ A simulation apparatus for executing functions included in an intermediate model generated from a model containing at least two specific parts, the apparatus comprising:

model acquisition means for acquiring the model containing the specific parts;

selection information acquisition means for acquiring selection information, from a source external to the simulation apparatus, capable of indicating selection of a specific part among the specific parts, using a part specifier corresponding to the specific part among the specific parts;

deletion and generation means for executing the functions included in the intermediate model, which is generated from the model acquired by the model acquisition means based on the selection information acquired by the selection information acquisition means, the intermediate model containing only a selected specific part selected from the specific parts and not containing any other specific part other than the selected specific part;

a machine readable storage medium for storing the generated intermediate model;

wherein the specific parts of the model correspond to regulations according to domestic laws of countries, the regulations being different from each other.

29.-50. (canceled)

51. (currently amended) ~~The code generation apparatus according to claim 50;~~ A code generation apparatus for generating part-specific source code for compiling into a part-specific executable program, the part-specific executable program for executing on a target electronic control unit (ECU) associated with a vehicle system, the target ECU for operating a specific part using the part-specific executable program, the apparatus comprising:

model acquisition means for acquiring a combined model containing information for generating source code associated with a plurality of parts, each of which is capable of being selected as the specific part in the vehicle system;

selection information acquisition means for acquiring selection information from an external source, the selection information indicating a selection of the specific part among the plurality parts;

searching means for searching the combined model containing the information for

generating source code associated with the plurality of parts to find part-specific information for generating the part-specific source code associated with the specific part matching the selection information acquired by the selection information acquisition means;

intermediate model generation means for deleting portions of the information for generating source code associated with the plurality of parts from the combined model to form an intermediate model, the intermediate model containing only information for generating the part-specific source code; and

generation means for generating the part-specific source code from the information for generating the part-specific source code contained in the intermediate model;

wherein: the specific parts individually correspond to variations of engine types of the vehicle system.

52.-60. (canceled)